

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A reflective liquid crystal display comprising:

a plane light source device having

(a) a light pipe which emits incident light from including an incident side, an upper surface, and a lower surface, from the other surface of its one of the upper and the lower surfaces through having light emitting means formed on the one of them for emitting light incident on the incident side from the other one of the upper and the lower surfaces, which constitutes a light emitting side of the plane light source device; and

(b) a plane light source device with a light source arranged on one or more sides the incident side of the said light pipe; and

a liquid crystal display panel having a reflective layer; and a visual recognition side facing said plane light source device;

wherein the light emitting side of the said plane light source device and the visual recognition side of said LCD liquid crystal display panel are bonded to each other through an adhesive layer, such that no air layer is interposed between said plane light source device and

said liquid crystal display panel, and wherein said adhesive layer ~~having~~ has a refractive index that is lower than ~~that a~~ refractive index of said light pipe.

2. (currently amended): A reflective ~~LCD~~liquid crystal display according to claim 1, wherein the refractive index of said light pipe is 1.49 or more and ~~that~~the refractive index of said adhesive layer is 1.48 or less.

3. (currently amended): A reflective ~~LCD~~liquid crystal display according to claim 1, wherein said adhesive layer has a full light transmittance of 90 % or more.

4. (currently amended): A reflective ~~LCD~~liquid crystal display according to claim 1, wherein said adhesive layer has a haze value of 10 % or less.

5. (currently amended): A reflective ~~LCD~~liquid crystal according to claim 1, wherein said ~~light pipe has a~~ light emitting means is provided on the upper surface of the light pipe, and in a ~~vertical~~ plane that is perpendicular to both reference planes of the lower surface and the incident side, an emitting light from the lower surface has a maximum strength in a direction within 30 ° from a normal line to the reference plane of the lower surface.

6. (currently amended): A reflective ~~LCD~~liquid crystal display according to claim 1, wherein said ~~light pipe has a~~ light emitting means is provided on the upper surface of the light pipe, and said light emitting means is composed of a plurality of asperities triangular in section each of which has an optical path converting plane with a tilt angle of 35 – 48 ° from ~~the~~ a reference plane of the lower surface.

7. (currently amended): A reflective ~~LCD~~liquid crystal display according to claim 1,

wherein said ~~light pipe has a light emitting means~~ is provided on the upper surface of the light pipe, and said light emitting means is a repetitive structure of prism-like asperities arranged at pitches of 50 μm – 1.5 mm, each asperity composed of an optical path converting plane and a long side plane,

wherein said optical path converting plane ~~is~~ has a slope ~~which~~ that tilts down at angle of 35 – 48 ° from ~~the~~ a reference plane of the lower surface from the incident side toward ~~its~~ an opposite end of the light pipe and has a projected width on the reference plane of 40 μm or less, and

wherein said long side plane ~~is~~ has a slope ~~which~~ that tilts at an angle of 0 – 10 ° from the reference plane, and has a projected width on the reference plane which is five or more time as long as ~~that~~ the projected width of the optical path converting plane, a difference in angle over all long sides being within a range of 5 ° and a difference in angle to ~~the~~ a nearest long side being within 1°.

8. (currently amended): A reflective ~~LCD~~ liquid crystal display according to claim 6, wherein said asperities ~~constituting of the light emitting means of the light pipe~~ have ridges ~~which are~~ that extend in a direction that is within a range of $\pm 30^\circ$ from ~~the~~ a reference plane of the incident side.